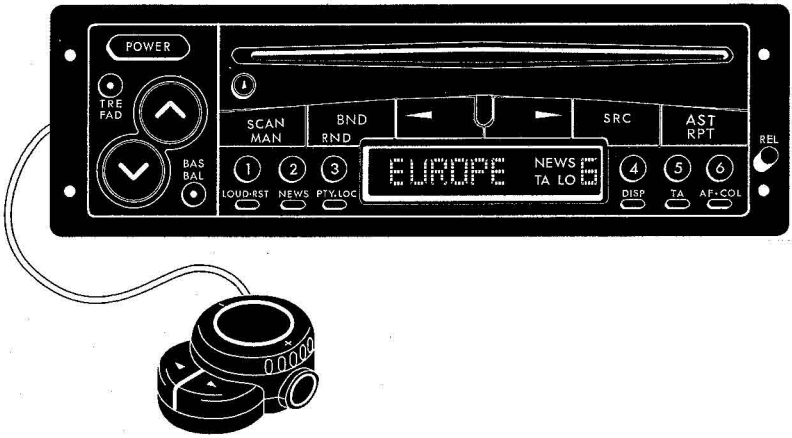
Philips Car Systems



DC932
DC933
DC942
DC944

Version	DC932	DC933	DC942	DC944
CDCC CD CHANGER CONTROL			✓	✓
Remote		Optional Function		✓

DIGITAL TUNER/COMPACT DISC COMBINATION

Bedienungsanleitung

PHILIPS

Warning: To prevent short-circuiting, **disconnect** the negative car battery terminal until the set has been mounted and connected.

Avertissement : Afin d'éviter tout court-circuit, **déconnecter** la borne négative de la batterie du véhicule jusqu'à ce que l'appareil ait été monté et branché.

Warnung: Zur Vermeidung von Kurzschlüssen den Minuspol der Batterie für die Dauer des Radio-Einbaus **abklemmen.**

Waarschuwing: Om kortsluiting te voorkomen, moet u vóór het monteren en aansluiten van het apparaat de negatieve accuklem **losmaken.**

Avvertenza: Per evitare cortocircuiti, **staccate** il morsetto negativo della batteria dell'auto finché l'apparecchio non è stato montato e collegato.

Atención: Para evitar cortocircuitos, **desconéctese** el terminal negativo de la batería hasta haber terminado el montaje y conexión del aparato.

Aviso: a fim de evitar curto-circuitos, **desligue** o terminal negativo da bateria do carro até o aparelho ter sido montado e ligado.

Varning: Förhindra kortslutning genom att **lossa** minuskabeln från bilbatteriet. När bilstereon är monterad och ansluten sätts minuskabeln på plats igen.

Advarsel: For at undgå kortslutninger, skal kablet til minuspolen på bilbatteriet være **fjernet**, indtil autoradioen er monteret og forbundet.

Varoitus: **Irrota** oikosulun välttämiseksi akun miinuskaapeli radion asennuksen ja kytkemisen ajaksi.

Attention: Please adjust the volume at such a level that you can still hear traffic signals (horns, sirens...)

Attention : Veuillez régler le volume à un niveau vous permettant d'entendre les signaux du trafic routier (avertisseurs sonores, sirènes ...)

Achtung: Stellen Sie die Lautstärke bitte so ein, daß Sie noch die Straßengeräusche (Hupe, Sirene usw.) wahrnehmen können.

Let op: Regel het volume zodanig dat u verkeerssignalen (claxon, sirene, e.d.) nog goed kunt horen.

Attenzione: Per favore regolate il livello del volume in modo da poter sentire ancora i segnali della circolazione (avvisatori acustici, sirene ...).

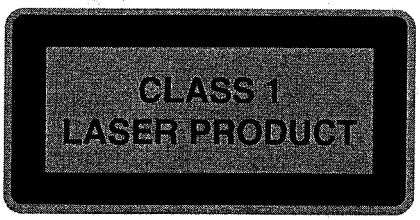
Atención: Ajústese el volumen a un nivel que permita oir las señales del tráfico (bocinas, sirenas ...).

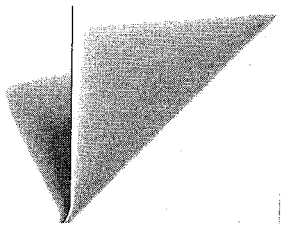
Atenção: Regule por favor o volume num nível em que possa ouvir os sinais de tráfego (buzinas, sirenes ...).

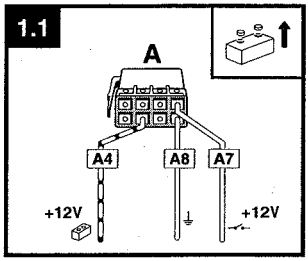
Observera: Ställ in volymkontrollen så att du fortfarande kan höra signalerna (signalhorn, sirener ...) från dina medtrafikanter.

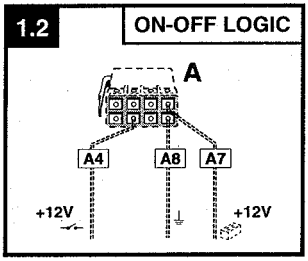
Bemærk: Justér aldrig volumenkontrollen til et højere niveau, end at De til stadighed kan høre signaler fra trafikken udenfor (bil-horn, siréner etc.).

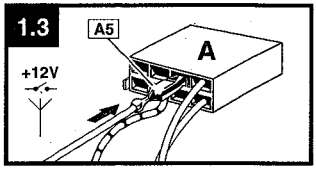
Huomio: Säädä äänenvoimakkuuden taso sellaiseksi, että kuulet silti muun liikenteen äänet (äänimerkit, hälytyssireenit ...).

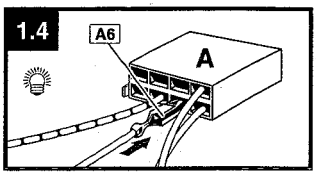


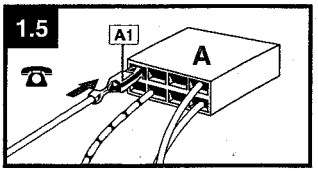


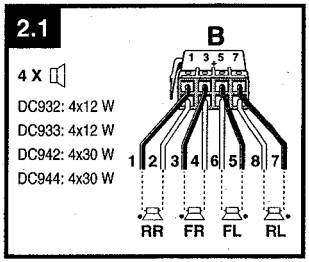

1.1
A
A4
A8
A7
+12V
+12V

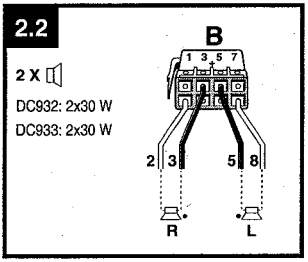

1.2
ON-OFF LOGIC
A
A4
A8
A7
+12V
+12V

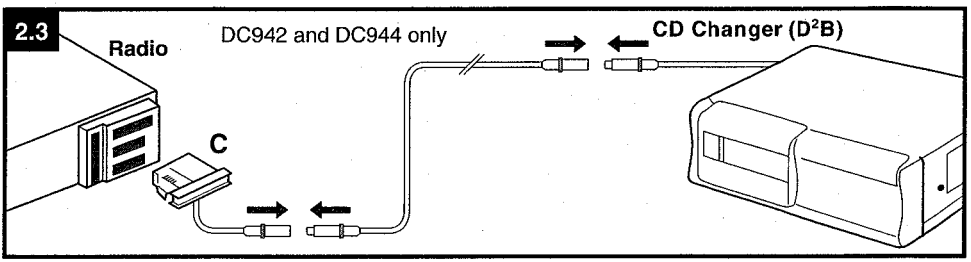

1.3
A5
A
+12V

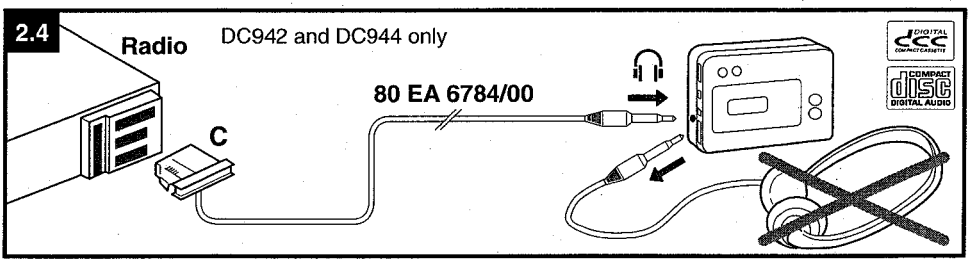

1.4
A6
A

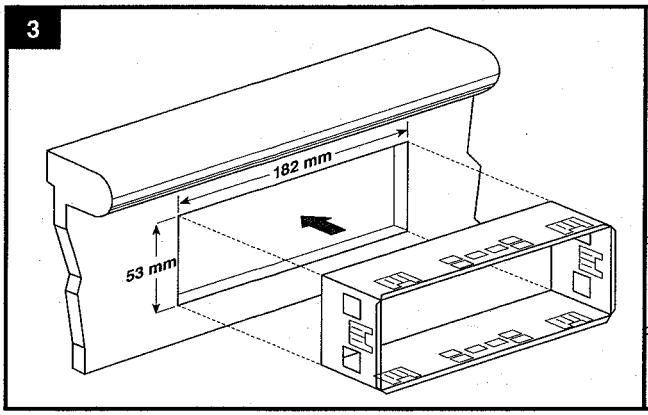

1.5
A1
A

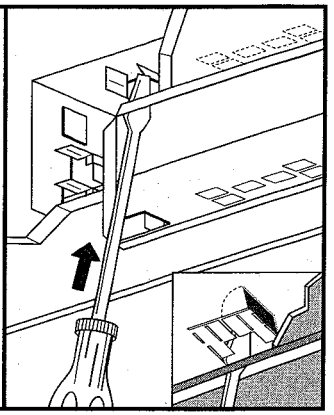

2.1
B
4 X
DC932: 4x12 W
DC933: 4x12 W
DC942: 4x30 W
DC944: 4x30 W
1 3 5 7
1 2 3 4 6 5 8 7
RR FR FL RL

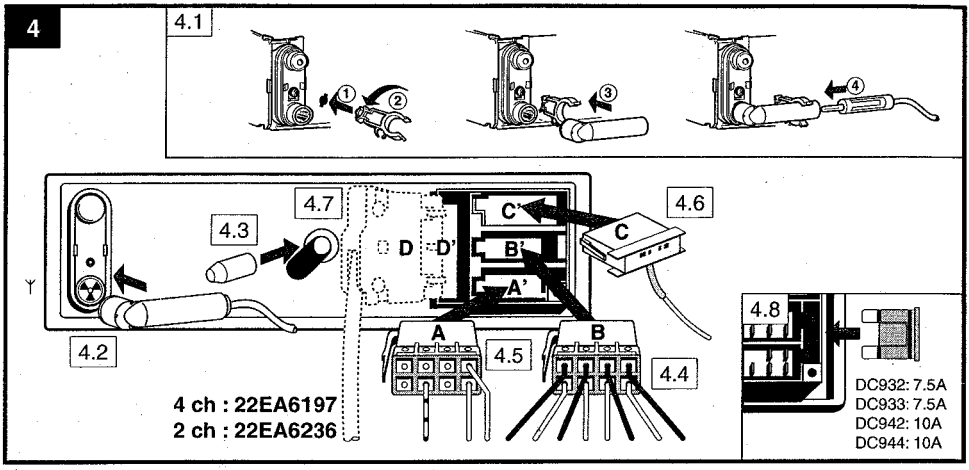

2.2
B
2 X
DC932: 2x30 W
DC933: 2x30 W
1 3 5 7
2 3 5 8
R L

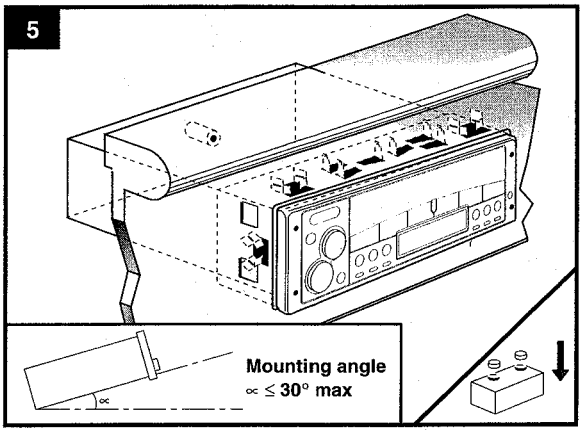

2.3
Radio
DC942 and DC944 only
CD Changer (D²B)
C

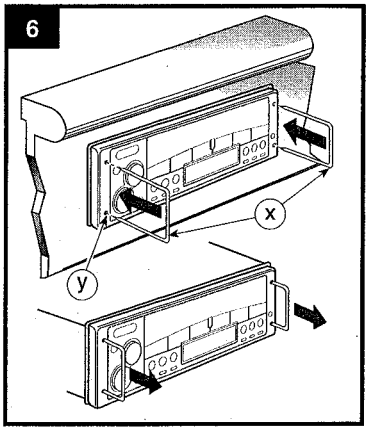

2.4
Radio
DC942 and DC944 only
80 EA 6784/00
C

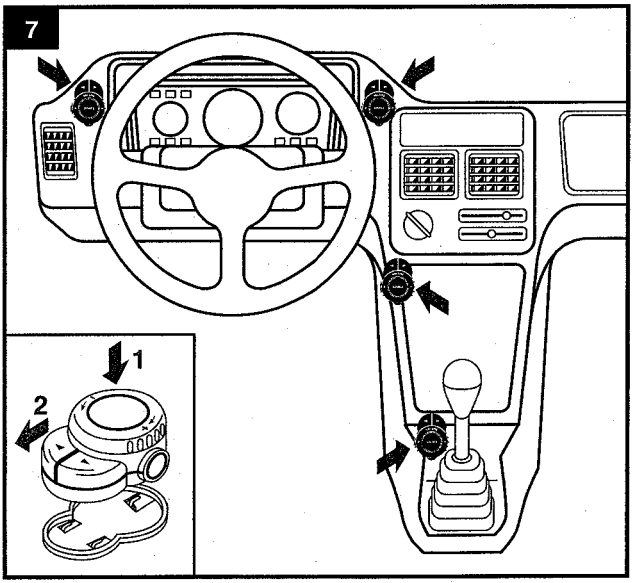

3
182 mm
53 mm

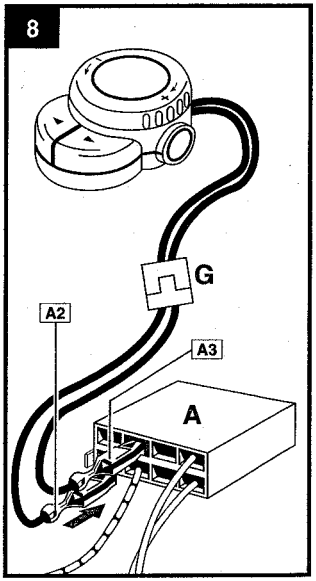



4
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
A
A'
B
B'
C
C'
D
D'
4 ch : 22EA6197
2 ch : 22EA6236
DC932: 7.5A
DC933: 7.5A
DC942: 10A
DC944: 10A


5
Mounting angle
∝ ≤ 30° max


6
x
y


7
1
2


8
G
A2
A3
A

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Kuvat	Sivut 3-4	
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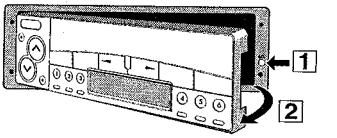
SECURITY

For theft protection this set is provided with the following security features:

1. DETACHABLE FRONT

- Always take the detachable front with you when leaving the car. Keep it in its protective case.
- For safety reasons, always replace the detachable front before starting to drive.

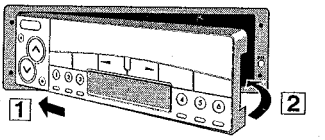
REMOVING FRONT



1 Press the release key.

2 Remove the front.

REPLACING FRONT



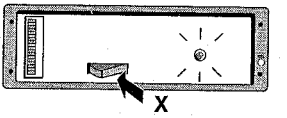
1 Insert front starting with the left-hand side of the set.

2 Push the front until it clicks into position.

Cleaning connectors for detachable front: To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

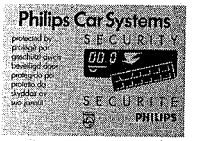
2. SWITCHABLE WARNING LED

When the detachable front is removed, the red LED flashes to indicate that the set is protected (the set must be connected according to the 'MOUNTING INSTRUCTIONS').



- You can stop, or start, the LED from flashing by pressing the switch (X) on the set for at least 2 seconds.

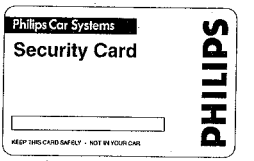
3. SECURITY WARNING STICKERS



- Stick the supplied 'Security' warning stickers on your car windows.

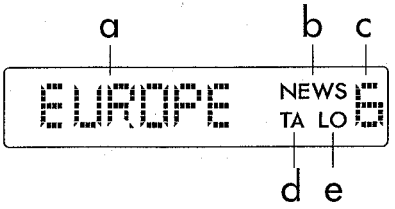
4. IDENTIFICATION NUMBER

This set has a unique identification number (stated on the 'Security card').



- Remove the 'Security card' before installing the set.

DISPLAY



(a) **Information concerning function:** Radio, CD, Audio setting or Initialisation.
(b) **NEWS:** Radio is in NEWS mode to give priority to News bulletins.
(c) **1 to 6:** Preset station (radio), or disc number (CD changer*).
(d) **TA:** Radio is in TA mode to give priority to Traffic Announcements.
(e) **LO:** Radio is in local mode (radio only stops at strong stations when using search tuning on FM).

Choice of display information (display modes)

You can select one of two/three different display modes.*

- To change the display mode, briefly press the DISP key.
  - See the following display readings (and examples).

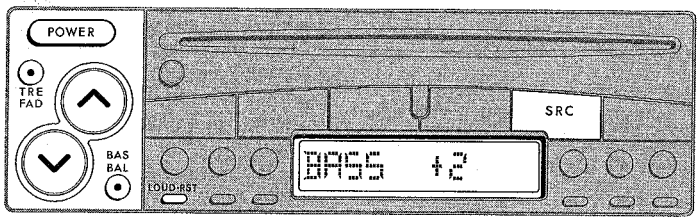
	Radio		CD	
	RDS station	**non-RDS station**	**CD**	**CD Changer***
DISPLAY 1	Station-name (EUROPE)	Frequency (FM3 101.6)	Track/Time (T03 06:35)	Track/Time/Disc (T03 06:35 6)
DISPLAY 2	Frequency (FM3 101.6)	Frequency (FM3 101.6)	Track/Time (total) (T14 61:10)	Track/Time/Disc (total) (T14 61:10 6)

Illumination colour: The illumination colour used for the set's display and keys can be changed to match the dashboard of your car. You can select either orange or green.

- Press the COL key for at least 2 seconds (until you hear a beep) to change the colour.

** only for certain versions.*

ON/OFF, VOLUME, SOURCE SELECTION ...



ON/OFF

- Press the POWER key to switch the set on or off.

VOLUME

- Press the ∧ key or ∨ key to adjust the volume. (Keeping the key pressed adjusts the volume quickly).

AUDIO MUTE (SILENCE)

If you want to receive Traffic Announcements and/or News bulletins and yet you want to have silence in the car:

1. Switch on the TA mode (see 'TRAFFIC INFORMATION ON FM') and/or switch on the NEWS mode (see 'NEWS BULLETINS ON FM'.)
2. Press the ∨ key until the display shows 'MUTE'.
3. To cancel mute, press the ∧ key to increase the volume.

Telephone mute

Certain car telephones can automatically interrupt the set's audio output. The display shows 'CALL' when the phone is in use. See 'MOUNTING INSTRUCTIONS'.

SOURCE SELECTION

- Briefly press the SRC key one or more times to select the desired source:

Display	Source	Remarks
TUNER	radio	
CD	CD	*if disc is inserted*
CHANGER*	CD changer	*if connected*
AUX*	external portable player	*if connected*

* *only for certain versions.*

... AND SOUND ADJUSTMENTS

TREBLE / BASS / FADER / BALANCE

The ∨ and ∧ keys normally function as volume control. These keys become the controls for Treble, Bass, Fader or Balance when you select the relevant audio mode. After use, the function of the keys returns to volume control (after about 10 seconds).

[1] Select desired audio mode:

Key	Brief press	Long press
TRE/FAD	**Treble**	**Fader**
BAS/BAL	**Bass**	**Balance**

[2] Press the ∨ or ∧ key to make the desired setting:

	Treble (high notes)	Bass (low notes)	Fader	Balance
Display	TREBLE	BASS	FAD	BAL
Maximum (∧ key)	+ 9	+ 9	- - 9 (front)	- - 9 (right)
Mid-position	0	0	- 0 -	- 0 -
Minimum (∨ key)	-9	-9	9 - - (rear)	9 - - (left)

Independent bass/treble settings
The bass and treble settings are stored independently for the following sound sources:

1 The FM radio bands
2 Traffic Announcements / News bulletins / Emergency announcements on FM (setting only possible during an Announcement)
3 The AM radio bands (MW, LW and SW)
4 CD
5 CD changer* / AUX* (if connected).

- Set your own bass and treble preferences while using these sources.

LOUDNESS

If desired you can switch on loudness to increase the high and low notes at low volume settings.

- Briefly press the LOUD key to switch loudness on or off.
  - The display briefly shows 'LOUD ON' or 'LOUD OFF'.

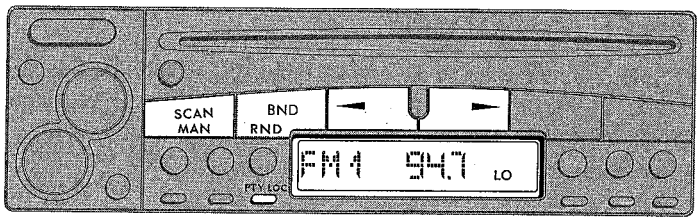
AUDIO-RESET

You can reset the treble, bass, fader and balance settings to their mid-positions. (At the same time the loudness function is set to 'OFF'.)

- Press the RST key for at least 2 seconds (until you hear a beep).
  - The display briefly shows 'RESET'.

** only for certain versions.*

WAVEBAND...



SELECTING WAVEBAND

- Briefly press the BND key to select the desired waveband.

FM1, FM2, FM3	FM (VHF)	87.5 - 108 MHz
MW1, MW2	Medium Wave	531 - 1629 kHz
LW	Long Wave	144 - 288 kHz
SW	Short Wave	5950 - 6200 kHz (49 m band)

FM1, FM2 and FM3 cover the same frequencies. The same is true for MW1 and MW2. The extra bands increase the possible number of preset stations.

TUNING TO A STATION

- Tune to a radio station using one of the following methods:
  - Search tuning;
  - Manual tuning;
  - Recalling a preset station;
  - Auto-Store;
  - Selecting a programme according to Programme type.

Tuning to SW stations

Consult the 'World Radio & TV Handbook' for details of SW transmitter frequencies and broadcasting times.

SEARCH, MANUAL TUNING

*You can use the ◄ and ► keys in two different tuning modes: search or manual tuning. When you switch on the set, it is in **search tuning** mode. You can switch to **manual tuning** mode if desired (see 'MANUAL TUNING').*

SEARCH TUNING

Use search tuning to quickly search for a station.

1 Briefly press the ◄ key or ► key.

◄ = lower frequency; ► = higher frequency.

- You will receive a station after a short time.

2 To search for another station, press the same key again.

If no station is found after the whole band has been searched, the radio searches for weaker stations.

Note: If you have switched on the TA mode, the radio will **only** search for stations allowing the reception of Traffic Announcements. (See 'TRAFFIC INFORMATION ON FM'.)

LOCAL / DISTANT

This function is only used together with SEARCH TUNING on FM.

- If search tuning stops too frequently (on FM bands only):

• Press the LOC key for at least 2 seconds (until you hear a beep) to select LOCAL mode. The display shows 'LO'.
In the LOCAL mode the radio first searches for strong stations and then weak stations.

- To return to DISTANT mode:

• Press the LOC key for at least 2 seconds (until you hear a beep). 'LO' disappears from the display.
This is the preferred mode for search tuning in areas with weaker signals.

MANUAL TUNING

Use manual tuning if you know the frequency of the required station.

Switching from search tuning to manual tuning

1 Press the MAN key for at least 2 seconds (until you hear a beep).

2 Tune to the desired frequency with the ◄ or ► key.

- **Fast tuning:** Keep the key pressed.
- **Step-by-step tuning:** Briefly press the key.

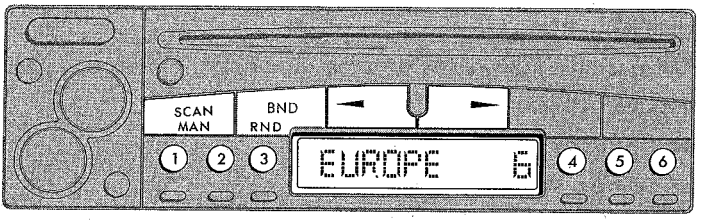
Switching back to search tuning

• Press the MAN key for at least 2 seconds (until you hear a beep).

Note:

- The radio **automatically** switches back to search tuning mode after about 1 minute.

PRESETS



STORING STATIONS ON PRESET KEYS

This radio has storage locations for:

18 FM stations	6 x FM1, 6 x FM2, 6 x FM3
12 MW stations	6 x MW1, 6 x MW2
6 LW stations	6 x LW
6 SW stations	6 x SW

1. Briefly press the BND key to select the desired waveband.
2. Tune-in the desired station (see 'SEARCH TUNING' or 'MANUAL TUNING').
3. Press the desired preset key (1 - 6) **for at least 2 seconds** (until you hear a beep).

Note: When storing an FM station, the AF mode (**on** or **off**) is stored on the preset.

RECALLING A PRESET

1. Briefly press the BND key to select the desired waveband.
2. Briefly press the desired preset key (1 - 6).
   - The display shows the frequency of the selected station. For RDS stations this is followed by the station-name.

⚠ **Display shows 'NO TA' and set bleeps?** Set is in TA mode but the selected station is too weak or does not broadcast Traffic Announcements (TA).
- Switch OFF the TA mode or tune to another station.

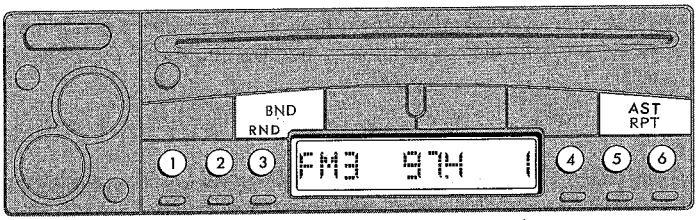
PRESET SCAN

The scan function gives you a quick impression of all the stations which are stored on the presets in the current waveband. You hear each preset station in turn for about 10 seconds. If the station is very weak you only hear the preset for about 3 seconds.

1. Briefly press the SCAN key.

   The display shows alternately:
   - 'SCAN' and the waveband (for example 'FM3')
   - the station-name (or frequency) and the preset number.
2. To stop the scan, briefly press the SCAN key again.

AUTOSTORE



By simply pressing one key you can automatically store 6 stations on the current waveband (except on SW).

Use Auto-Store to quickly find the strongest stations, for example when travelling through different reception areas.

When you use Auto-Store, the new stations ***replace*** *any stations previously stored on the current waveband.*

AUTOMATICALLY STORING STATIONS ON PRESET KEYS

1 Select the waveband on which you want to store the stations with the BND key.

2 Press the AST key.

- The set gives a beep and then mutes.
- The display shows 'AST'.
- The radio stores 6 stations on the current waveband.
- When it has finished you hear a beep.

Interrupting Auto-Store: If you accidentally press the AST key, you can cancel the Auto-Store function by switching the set **off** and then **on** again before the AST function has been completed.

RECALLING AUTOMATICALLY-STORED STATIONS

1 Select the desired waveband (if not already selected).

2 Use the preset keys (1-6) or use PRESET SCAN.

Notes:

- Sometimes it may not be possible to find six stations. In this case, the remaining presets (for example 5 and 6) are programmed with '0000'.
- Auto-Store is not available on SW (the set gives an error beep).

RADIO DATA SYSTEM (RDS) ON FM

RDS is a system in which inaudible digital information is transmitted in addition to the normal FM radio broadcast. This car radio uses the RDS information to offer you many advantages, including:

- **Display of station-name:** The set displays the name of the station instead of its frequency.
- **Automatic retuning:** When the AF function is activated, the set maintains the best possible reception. The set continuously checks a list of Alternative Frequencies (AF) for the tuned radio station and automatically selects the best frequency for you.
- **Traffic information:** When the TA function is activated, the radio tunes to a station which may broadcast traffic information (TP = Traffic Programme) and receives Traffic Announcements (TA) when broadcast. You can receive Traffic Announcements even when listening to CD or during audio mute.
- **News bulletins:** When the NEWS function is activated, you can receive News bulletins, even when listening to CD or during audio mute.
- **Information from related radio stations:** Enhanced Other Networks (EON) is an RDS service where the broadcaster links some stations together. If you are tuned to a station which is linked to others by EON, the set is capable of receiving Traffic Announcements and/or News bulletins from both the tuned station and related stations.
- **Station selection according to programme type:** Using the PTY function, the set can detect and select the type of programme (PTY = Programme Type) being transmitted. For example: News, Sport, Classical music or Pop music.
- **Automatic tracking of RDS regional programmes:** This radio ensures that when listening to a regional programme, the radio will stay tuned to the same regional programme as long as possible.
- **Emergency announcements (PTY Alarm):** This set automatically receives emergency announcements made by the broadcaster using the RDS PTY alarm service. (During the message the display shows 'ALARM' and the station-name alternately).

When an RDS transmission is received, the display shows the station name.

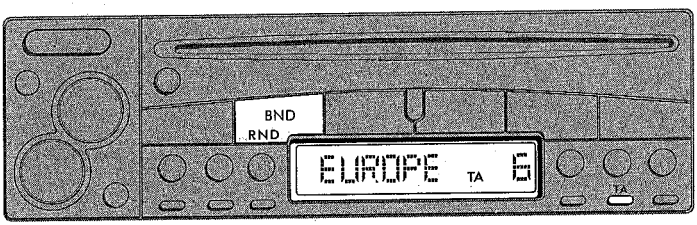
Switching off automatic retuning

- If you want to prevent the radio from retuning to Alternative Frequencies, briefly press the AF key.
  - The display briefly shows 'AF OFF' and the radio stops checking Alternative Frequencies.
- To switch on automatic retuning again, briefly press the AF key again.
  - The display briefly shows 'AF ON'.

Notes

- Automatic retuning is activated again if you tune to another station (or if you switch the set **off** and then **on** again).
- 'AF ON' or 'AF OFF' is stored on each preset. If you store a station on a preset when AF is switched off, the radio will **not** check Alternative Frequencies whenever you select this preset.

TRAFFIC INFORMATION ON FM



*You can **switch on the TA mode** to give priority to traffic information. As a consequence the radio may automatically retune to another station which enables it to receive traffic information.*

Switching on TA mode

1 Select an FM band.

2 Briefly press the TA key. **The display shows 'TA'.**

*- If the display shows 'NO TA': The radio was **not** already tuned to a station enabling the reception of Traffic Announcements. The radio automatically searches until it finds another station.*

- You will now hear Traffic Announcements when broadcast.
- When the set receives Traffic Announcements from other stations (linked by EON), the set temporarily shows the name of that station and 'TRAFFIC'.

Note: If the radio continuously searches, and you hear **beeps repeated at intervals**, you are in an area where no traffic information is broadcast according to the RDS system. Briefly press the TA key to switch off the TA mode.

Switching off TA mode

- Briefly press the TA key. **'TA' disappears from the display.**
  - Traffic Announcements no longer have priority.

Traffic Announcements during CD playback or MUTE

If you play a CD, or mute the set, *while the TA mode is switched on (display shows 'TA')*, you will still hear Traffic Announcements when broadcast.

Interrupting a Traffic Announcement

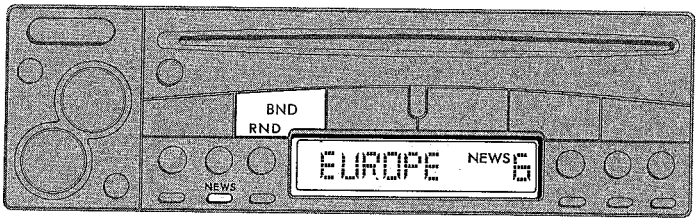
If you do not wish to continue listening to a particular Traffic Announcement, you can interrupt it *without switching off the TA mode.*

- Press the TA key for at least 2 seconds (until you hear a beep) **during the announcement** ('TA' remains on the display.)

Notes:

- If the TA mode is switched on, search tuning only selects stations which enable the reception of Traffic Announcements.
- If the tuned station becomes too weak to enable the set to provide the RDS traffic service, you will hear **beeps repeated at intervals**. Use search tuning to find another station.
- **Volume level for traffic messages:** You will hear Traffic Announcements at a certain volume level. You can change this volume level if desired, see 'INITIALISATION'.

NEWS BULLETINS ON FM (PTY NEWS)



You can ***switch on the NEWS mode*** *to give priority to news bulletins.*

Note: *PTY NEWS is not yet implemented in all countries.*

Switching on NEWS mode

1 Select an FM band.

2 Briefly press the NEWS key. **The display shows 'NEWS'.**

3 Tune to a station which broadcasts PTY NEWS (or a station linked by EON to a station which broadcasts PTY NEWS).

To check if the tuned station broadcasts PTY NEWS: Briefly press the PTY key *during a news bulletin.* If 'NEWS' is displayed, this station broadcasts PTY NEWS.

- You will now hear news bulletins when broadcast.
- When the set receives a news bulletin broadcast by *another station* (linked by EON), the set temporarily shows the name of that station.

Switching off NEWS mode

- Briefly press the NEWS key. **'NEWS' disappears from the display.**
  - News bulletins no longer have priority.

NEWS during CD playback or MUTE

If you play a CD, or mute the set, *while the NEWS mode is switched on (display shows 'NEWS'),* you will still hear news bulletins when broadcast.

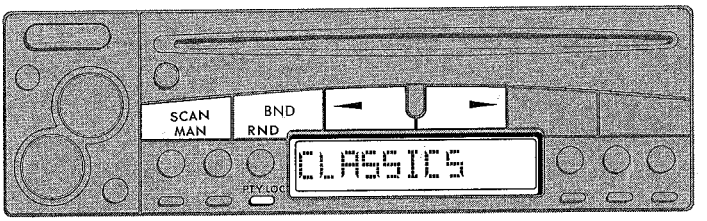
Interrupting NEWS

If you do not wish to continue listening to a particular news bulletin, you can interrupt it *without switching off the NEWS mode.*

- Press the NEWS key for at least 2 seconds (until you hear a beep) **during the news bulletin** ('NEWS' remains on the display). The set returns to CD playback, audio mute or the originally-tuned radio station.

Note: TA mode has priority over NEWS mode. News bulletins may be interrupted by Traffic Announcements (if the TA mode is switched on).

PROGRAMME TYPE (PTY)



Many RDS stations transmit a 'PTY code' indicating the ***type*** *of programme being broadcast (for example 'news' or 'pop music'). If the programme changes during the day, the broadcaster may also change the PTY code.*

You can select stations according to the programme type. This is useful if many stations are available.

Note: *PTY is not yet implemented in all countries.*

Selecting a programme according to Programme Type (PTY)

1 Tune to an FM station.

2 Briefly press the PTY key

- The display shows the programme type of the tuned station for a few seconds (for example 'CLASSICS').
- If the display shows 'NO PTY', the station does not transmit the programme type.

3 Press the ◄ or ► key to select the desired programme type.

The following are examples of programme types:

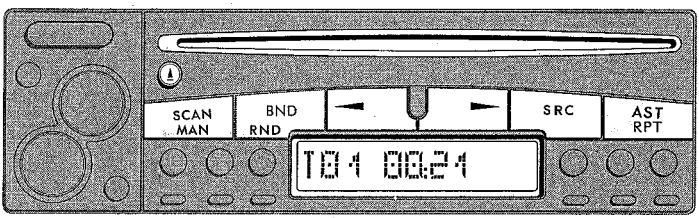
Programme type	Display		Programme type	Display
News	NEWS		Varied	VARIED
Current Affairs	AFFAIRS		Pop Music	POP M
Information	INFO		Rock Music	ROCK M
Sport	SPORT		M.O.R. (Middle Of the Road) Music	MOR M
Education	EDUCATE		Light Classical	LIGHT M
Drama	DRAMA		Serious Classical	CLASSICS
Culture	CULTURE		Other Music	OTHER M
Science	SCIENCE			

4 Press the SCAN key to start the search for a station with the displayed programme type.

To return to normal operation

- Wait for about 1 minute, **or**
- Briefly press the PTY key.
  - The display shows the station-name (or frequency) of the last-selected station.

COMPACT DISC PLAYER



This CD player is suitable for both 8 cm (singles) and 12 cm discs.

CD PLAYBACK

Inserting a disc automatically switches the set on.

- Slide the disc (with the label facing upwards) into the slot.
  - The display briefly shows 'LOAD CD' and then 'CD'.
  - The display then shows the total number of tracks and the total playing time (for example 'T14 61:10').
  - The player starts playback, beginning with track 1.
  - The display then shows: 'T', the current track number and the elapsed time (for example 'T01 00:21').

If a disc is already inserted:

- Select 'CD' by briefly pressing the SRC key one or more times.

Notes:

- If you insert the disc upside-down, it will be ejected.
- Traffic Announcements may interrupt CD playback if the TA mode is switched on.
- News bulletins may interrupt CD playback if the NEWS mode is switched on.

EJECTING DISC

1. Press the ⏏ key.
   - The display shows 'EJECT CD'. The disc is ejected.
2. Carefully remove the disc from the player.

PLAYING A SPECIFIC TRACK (NEXT / PREVIOUS)

- Briefly press the ⏮ or ⏭ key one or more times to select the desired track (for example 'T01 > 02').
  - Playback resumes starting from the chosen track.

FAST FORWARD/BACKWARD

1. To quickly move to another part of the disc during playback, press the ⏮ or ⏭ key for at least 2 seconds.
2. Release the key to resume normal playback.

Note: Fast forward / backward is possible across the complete disc if the player is in normal play mode. However, in random or repeat mode it is only possible within the current track on the disc.

SCAN

The scan function enables you to become familiarized with the disc in a convenient way.

1 Briefly press the SCAN key.
- The display shows 'SCAN' and the track number being scanned.
- You hear the first 10 seconds of each track.
- After the last track on the disc has been scanned, the set continues the scan from the first track on the disc.

2 Briefly press the SCAN key again when you hear a track which you like.
- Normal playback resumes.

REPEAT TRACK

The repeat function enables you to replay your favourite track.

1 Press the RPT key.
- The display shows 'RPT ON'.
- The display then shows the track number and time.
- When the end of the track is reached, the same track will be played again until the repeat function is switched off.
- During the return to the beginning of the track the display briefly shows for example 'T12 RPT'.

2 To **resume normal playback**, press the RPT key again.

RANDOM PLAYBACK

You can play the tracks on the disc in a random order.

1 Press the RND key.
- The display shows: 'R', the track number and the playing time (for example 'R01 10:45').

Notes:
- If you briefly press the ⏮ key, a randomly-selected track will be played.
- If you briefly press the ⏭ key, the previously played track will be recalled and played. (The set remembers the track numbers of the last three tracks played.)

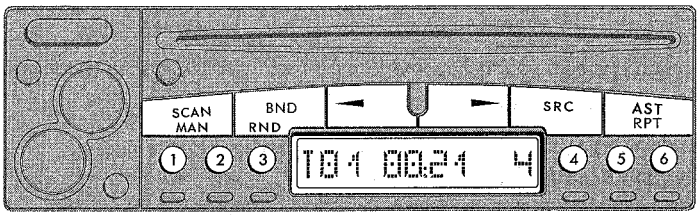
2 To resume normal playback, press the RND key again.

CARE OF DISCS

Fingerprints: Avoid making fingerprints on the disc when you take it out.
Storage: Put the disc back in its box immediately after ejecting it, to protect the disc from damage and dust. Do not expose the disc to heat or direct sunlight.

LASER PRODUCT CLASS 1
WARNING: If the appliance is used in a way differing from that which is specified in the instructions for use, the user may be exposed to invisible laser radiation exceeding the limit of laser class 1.

CD CHANGER*



A Philips CD changer **(D²B type)** can be connected to this car radio. See your dealer for more information.

- **Check that the magazine is loaded with discs and inserted in the CD changer.**

CD PLAYBACK

- Select 'CHANGER' by briefly pressing the SRC key one or more times.

- *If you want to start playback commencing with a specific disc, you can directly access the disc in the CD changer:*

- Press one of the preset keys (1 - 6) to select the desired disc.
  - The display shows the total number of tracks and the total playing time and the disc number (for example 'T14 61:10 2').
  - The player starts playback, beginning with track 1.
  - The display then shows: 'T', the current track number, the elapsed time and the disc number (for example 'T01 00:21 4').
  - At the end of the disc, playback automatically continues with the next disc. If you have loaded fewer than 6 discs, any missing disc is automatically skipped.

Notes:

- Traffic Announcements may interrupt CD playback if you have switched on the TA mode. (See 'TRAFFIC INFORMATION ON FM'.)
- News bulletins may interrupt CD playback if you have switched on the NEWS mode. (See 'NEWS BULLETINS ON FM'.)
- If you hear a beep and/or the display shows 'NO DISC' or 'NO SRC' or 'CD ERROR':
  - *Check that the magazine has been loaded with discs and inserted in the CD changer.*
  - *Check that the discs have been inserted the correct way up.*
  - *Check that you have not inserted a damaged or dirty disc.*

PLAYING A SPECIFIC TRACK (NEXT / PREVIOUS)

- Briefly press the ◄ or ► key one or more times to select the desired track (for example 'T01 > 02').
  - Playback resumes starting from the chosen track.

- If you want to return quickly to the **first track on the current disc:**
- Press the preset key (1 - 6) corresponding to the disc being played.

** only for certain versions.*

FAST FORWARD/BACKWARD

1 To quickly move to another part of the disc during playback, press the ⟵ or ⟶ key for at least 2 seconds.
2 Release the key to resume normal playback.

Note: Fast forward / backward is possible across the complete disc if the player is in normal play mode. However, in random or repeat mode it is only possible within the current track on the disc.

SCAN

The scan function enables you to become familiarized with the disc in a convenient way.

1 Briefly press the SCAN key.
- The display shows 'SCAN' and the track number being scanned.
- You hear the first 10 seconds of each track.
- After the last track on the disc has been scanned, the set continues the scan from the first track on the disc.

2 Briefly press the SCAN key again when you hear a track which you like.
- Normal playback resumes.

RANDOM PLAYBACK

You can play the tracks on the disc in a random order.

1 Press the RND key.
- The display shows: 'R', the track number and the playing time (for example 'R01 10:45 1').
- After all the tracks on the disc have been played, Random play continues on the next disc, and so on.

Notes:
- If you briefly press the ⟶ key, a randomly-selected track will be played.
- If you briefly press the ⟵ key, the previously played track will be recalled and played. (The set remembers the track numbers of the last three tracks played.)

2 To resume normal playback, press the RND key again.
- The display shows 'T', the track number and the elapsed time.

REPEAT (enables you to replay your favourite disc or track)

1 Briefly press the RPT key (to repeat disc).
- The display shows 'RPT CD', then the track number and time.

2 Briefly press the RPT key again (to repeat track).
- The display shows 'RPT ON', then the track number and time.
- The track will be repeated until the function is switch off.

3 To resume normal playback, briefly press the RPT key.
- The display shows 'RPT OFF'.

** only for certain versions.*

INITIALISATION

It is possible to modify many of the set's initial settings according to your preferences.

Selecting personal settings

1 Switch on the set.
2 Press the BND key **for at least 2 seconds** (until you hear a beep) to enter the 'INIT' mode .
- The display shows 'INIT'.
3 Press the SCAN key one or more times until the **option** you want to modify is displayed (see list of 'INIT' options).
4 Briefly press the ◄ or ► key one or more times to adjust the **choice**.
- The choice shown on the display will be memorized by the set when you select another option or leave the 'INIT' mode.
5 Press the BND key **for at least 2 seconds** (until you hear a beep) to leave the 'INIT' mode.

Note: The set automatically leaves the 'INIT' mode about 1 minute after your last operation.

'INIT' options

Initial settings (when set leaves factory) are shown in **bold**. If you are unsure of the best choice, choose the factory setting.

Option	Choice	Usage
SRC*	[**CDC**, AUX]	Source connected to connector C of the car radio: - Select 'CDC' if connecting a Philips CD changer (D^2B type); - Select 'AUX' if connecting a portable audio player.
REF	[5 ... **12** ... 23]	Reference volume level of tuner.
CD	[-2, -1, **0**, +1, +2]	Volume level of CD relative to tuner.
CDC*	[-2, -1, **0**, +1, +2]	Volume level of CD Changer relative to tuner.
AUX*	[-2, -1, **0**, +1, +2]	Volume level of AUX input relative to tuner.
TA	[-2, -1, **0**, +1, +2]	Volume level of Traffic Announcements and News bulletins relative to tuner.
VIEW	[-1, 0, +1]	Select the viewing angle of the set's LCD display.
PHONE	[**NO**, LO, HI]	Select 'LO' or 'HI' according to phone ('LO' in most cases). Select 'NO' if no phone connected.
BLEEP	[-2, -1, **0**, +1, +2]	Select volume level of confirmation beeps (useful if external amplifier is connected).
LW	[OFF, **ON**]	Select 'OFF' to suppress LW band if it is not used.
SW	[OFF, **ON**]	Select 'OFF' to suppress the SW band if it is not used.
LOGI	[**OFF**, ON]	Select 'ON' if you want to be able to use the set even when the car ignition is switched off. The **'On/off logic'** feature enables use of the set (for one hour) even when you have removed the car ignition key. (See 'MOUNTING INSTRUCTIONS'.)

** only for certain versions*

PREVENTIVE MAINTENANCE

Cleaning connectors for detachable front

To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

CHECKS BEFORE REQUESTING SERVICE

There may be times when you suspect that your car radio is not functioning as you expect it to. Before calling for service please read the operating / mounting instructions and check the following list. You may find that an apparent malfunction can easily be rectified.

Symptoms	Possible Cause / Remedy
General	
Set does not function, No display.	• Check fuse (set and car) and connections.
Set functions but with no or poor sound.	• Adjust volume of set to demute set. • Check fader and balance settings. • If car phone is connected, check setting for 'PHONE' option in 'INIT' mode.
Set mutes when you drive the car or display shows 'CALL'.	• Set 'PHONE' option to 'NO' in 'INIT' mode and see 'MOUNTING INSTRUCTIONS'.
Detachable front of set feels warm.	Some heat is always generated by the set.
Display shows 'TOO HOT' and the sound from the speakers is reduced.	A built-in safety circuit prevents the temperature in the set from exceeding a certain level. • Wait until 'TOO HOT' disappears from the display before increasing the volume.
Radio	
Poor radio reception.	• Check that the aerial is fully extended and properly connected.
Display shows 'SEARCH' and station name alternately.	Set is searching for the station. This happens when broadcast is too weak. • Wait until set completes its search.
Display shows frequency (not station name).	Set is tuned to non-RDS station.
Display shows 'ALARM'.	Emergency announcement (PTY Alarm) is being broadcast.
Unable to tune to desired station with Search tuning.	- The desired station is too weak. • Repeat Search tuning with local search mode (LO) OFF. • Tune to desired station using Manual tuning. • Check that the aerial is fully extended. - Set is in TA mode: only stations with Traffic Announcements can be tuned in. • If necessary switch OFF the TA mode.
Display shows 'NO TA' and set bleeps.	Set is in TA mode but the selected station is too weak or does not broadcast Traffic Announcements (TA). • Switch OFF the TA mode or tune to another station.
CD	
Display shows 'NO DISC', 'NO SRC' or 'CD ERROR'.	No CD inserted, or CD inserted upside-down or damaged or dirty or of the wrong type.
Distorted sound during playback.	Player unable to read disc. CD damaged or dirty.

If you still have to send your set for service, always send the complete set (with detachable front). Do not try to open the set to service it yourself.

MOUNTING INSTRUCTIONS (see pages 3 - 4)

Aerial: Good reception is only possible with a good aerial. Position the aerial as far as possible from the ignition assembly. The aerial earthing bar or strap must contact clean metal. Protect this contact against corrosion with silicone grease or another rust preventer.

Adaptor cables: Specific adaptor cables (which simplify connection of the set) are available for many cars. Refer to the table at the end of this booklet. Contact your dealer for further information.

1. POWER SUPPLY

Voltage and polarity: The set must be connected to a 12 V car battery with negative terminal to earth (car chassis).

- Use the same earthing point for the radio and all other audio equipment (to minimize interference).

*Possible connecting points for a **permanent** 12 V supply:*
- *the supply lead for the car interior lighting;*
- *the supply lead for the clock; or*
- *a contact in the fuse-box with permanent voltage.*

This supply is needed for the set's memory. It also ensures that a CD changer* functions correctly.
This voltage must never be interrupted, even when starting or switching off the engine.

*Possible connecting points for a **switched** 12 V supply:*
- *the 12 V lead provided by the car manufacturer for the radio; or*
- *the accessory contact of the ignition switch.*

⚠ **WARNING: To prevent short-circuiting, disconnect the negative car battery terminal until the set has been mounted and connected.**

PREPARING CONNECTOR A

1.1 Recommended power supply connections

[1] **BROWN** lead [A8]: Connect to an earthing point on the car body.
[2] **RED** lead [A7]: Connect to a **switched** 12 V supply.
[3] **YELLOW/RED** lead [A4]: Connect to a **permanent** 12 V supply.

1.2 Alternative power supply connections (for 'ON/OFF LOGIC')

The 'ON/OFF LOGIC' feature in this set functions only if your car has been prepared for it (e.g. certain VW and Opel/Vauxhall cars). Consult your car service manual or check with your dealer to confirm this. See illustration for correct connection.

[1] **BROWN** lead [A8]: Connect to an earthing point on the car body.
[2] **RED** lead [A7]: Connect to a **permanent** 12 V supply
[3] **YELLOW/RED** lead [A4]: Connect to a **switched** 12 V supply.
[4] See 'INITIALISATION', option 'LOGI' to activate this feature.

** only for certain versions.*

MOUNTING INSTRUCTIONS (continued)

OPTIONAL CONNECTIONS

1.3 Electronic/motor aerial: Connect the **supply for an electronic aerial** or the **control lead for the relay of an automatic motor aerial** to pin [A5]. Use the small contact supplied.
Do not use this connection point for direct supply of the aerial motor!

1.4 Pilot light: When the car headlamps are switched on, the on/off control of the radio is illuminated (even when the radio is switched off). Connect pin [A6] to the dashboard illumination wiring of your car. Use the small contact supplied.

1.5 Telephone mute: If your car telephone provides a mute signal, it can be used to automatically interrupt the set's audio output. Connect the telephone mute wire to connector [A1]. Use the small contact supplied.
Refer to 'INITIALISATION'. Select option 'PHONE' and choose 'LO' or 'HI' according to your telephone mute signal. (In most cases this is 'LO'.)

Note: In certain VW and Opel/Vauxhall cars, the connector [A1] is used as a speed-dependent volume control (GALA). Ask your authorized VW or Opel/Vauxhall dealer to modify this connection if you want to use the telephone mute feature.

PREPARING CONNECTOR B (FOR LOUDSPEAKERS)

- ***Only use loudspeakers which have an impedance of 4 ohms.***
- ***Ensure that the loudspeakers are connected in phase by using marked speaker terminals for the phase (+) connections.***
- ***Do not connect any of the loudspeaker leads to earth!***
- ***Do not connect a booster/amplifier directly to the loudspeaker outputs!***
- ***Do not connect loudspeakers via an external fader!***

2.1 Connecting 4 loudspeakers (see illustration) 4 x

1 = Rear Right phase (RR +)
2 = Rear Right return (RR –)
3 = Front Right phase (FR +)
4 = Front Right return (FR –)
5 = Front Left phase (FL +)
6 = Front Left return (FL –)
7 = Rear Left phase (RL +)
8 = Rear Left return (RL –)

2.2 Connecting 2 loudspeakers (see illustration) 2 x

3 = Right phase (R +)
2 = Right return (R –)
5 = Left phase (L +)
8 = Left return (L –)

PREPARING CONNECTOR C

2.3 CD CHANGER*: You can connect a CD changer **(D²B type)** to this set* (see the mounting instructions for the CD changer).

2.4 PORTABLE PLAYER*: To increase your listening possibilities you can connect a portable DCC, CD or cassette player to this set* (in place of a CD changer). Use the cable mentioned in the illustration. The cable must be connected to an output of 750 mV (in most cases the headphone output of the portable player is suitable).

[1] Select option 'SRC' and set the choice to 'AUX' as described under 'INITIALISATION'. This indicates to the set that a portable player is connected instead of a CD changer.
[2] Increase the volume of the portable player to desired level.

** only for certain versions*

3. INSTALLING METAL SLEEVE

[1] Insert metal sleeve into the opening (182 x 53 mm) in the car dashboard or console.

[2] Fix metal sleeve into place by pressing the metal tags outwards using a screwdriver.

Rear support: Depending on car mounting situation, a rear support may be necessary. Certain cars are provided with a rear support hole. For other cars, a rear support bracket should be fitted.

4. CONNECTING RADIO

4.1 Fit antenna adaptor if needed
4.2 Insert aerial plug into aerial adaptor/socket.
4.3 Screw rubber buffer onto fixing stud at rear of set.
4.4 Insert loudspeaker plug **B** into socket **B'**.
4.5 Insert power supply plug **A** into socket **A'**.
4.6 (optional) Remove the plastic cover from socket **C'** and insert the rectangular plug from the CD changer* or Portable player*.
4.7 (optional) **Line output (4-channel):** You can connect a power amplifier (with additional loudspeakers) to this set. Use the adaptor cable (CINCH) mentioned in the illustration which is available from your dealer. Insert the rectangular plug **D** into socket **D'**.

5. MOUNTING RADIO

- Slide the radio into the metal sleeve until the springs at either side of the radio snap into the openings of the sleeve.
- **Reconnect** the negative car battery terminal.
  - Installation is now complete.

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6. REMOVING RADIO

You can unlock the radio using the two U-brackets supplied.

Insert both U-brackets [x] into the holes [y] on the front of the set until they lock.
Remove the radio from the metal sleeve.

REPLACING FUSE (see illustration 4.8)

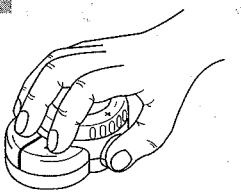
Pull fuse out of connector block at rear of radio.
Replace with a blade-type fuse of the correct rating.

INTERFERENCE SUPPRESSION

Most modern cars have sufficient interference suppression. If you experience interference generated by the car, consult your garage.

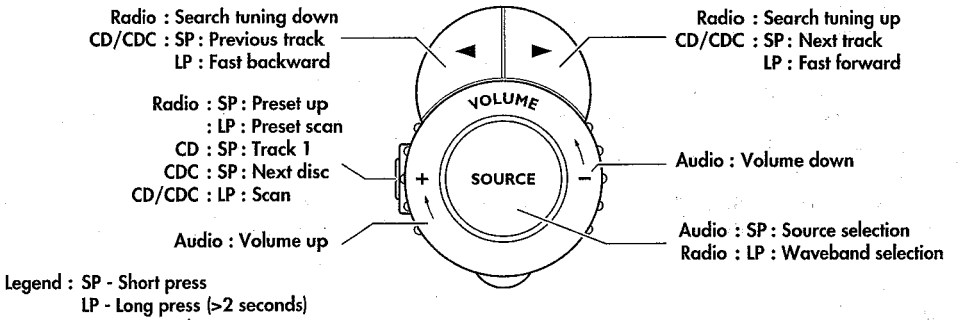
** only for certain versions*

REMOTE CONTROL



This set can be equipped with a wire remote control allowing you to carry out some of the main functions of the set. Thanks to the large buttons and ergonomic design, you can easily control the set without the need to take your eyes off the road while driving. This gives you increased security.

• The following functions are available :


Radio : Search tuning down
CD/CDC : SP : Previous track
LP : Fast backward
Radio : SP : Preset up
: LP : Preset scan
CD : SP : Track 1
CDC : SP : Next disc
CD/CDC : LP : Scan
Audio : Volume up
Radio : Search tuning up
CD/CDC : SP : Next track
LP : Fast forward
Audio : Volume down
Audio : SP : Source selection
Radio : LP : Waveband selection
VOLUME
SOURCE
+
–

Legend : SP - Short press
LP - Long press (>2 seconds)

■ INSTALLING REMOTE CONTROL

Fixing remote control (Fig. 7)

The remote control has to be fitted in a position which is easily accessible by a natural movement, either on the dashboard or between the two seats.

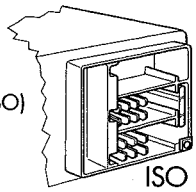
The remote control, or its cable, must in no way interfere with normal use of the steering wheel! Never mount the remote control on the steering wheel itself!

- First fix the support temporarily using the adhesive tape. You can then check for ease of use in that position.
- After you have determined the ideal position, fix the remote control as follows:
  - **Fix the metallic support using the supplied screws.** Then slide the remote control into its support. **For security reasons always leave the remote control fitted in its support!**

Connecting remote control (Fig. 8)

- Determine the best way to pass the cable through or below the console. This depends on the location of the remote control and the configuration of your car.
- If you need to drill a hole, the required diameter is 8 mm. Be careful not to drill into any existing wiring! Protect the remote control cable from sharp edges. Use a rubber grommet if necessary.
- Insert the 2 mini-connectors into positions [A2] and [A3] of connector **A**.
  If you later want to disconnect the remote control, do this by disconnecting the intermediate connector **G**.
- Fix the remote control cable with adhesive tape underneath the carpet.
  Run the cable in such a way that you cannot tread on it and that it does not get in the way when driving!

ADAPTOR CABLES (for cars which do *not* have standard ISO connectors)
CÂBLES D'ADAPTATION (pour des voitures *non-équipées* de connecteurs au standard ISO)
ANPASSUNGSKABEL (für Fahrzeugtypen die *keine* standard ISO-Stecker haben)
ADAPTERKABELS (voor auto's die *geen* standaard ISO connectors hebben)
CAVI ADATTATORI (per le auto che *non* sono dotate di connettori ISO standard)
CABLES DE ADAPTACIÓN (para vehículos que *no* incluyen conectores standard ISO)
CABOS ADAPTADORES (para viaturas *sem* conectores normalizados ISO)
ADAPTERKABLAR (för bilar som *inte* har ISO standardkontakter)
ADAPTERKABLER (for alle biler der *ikke* har standard ISO connectorer)
SOVITUSJOHDOT (autoille joissa *ei* ole ISO-normin mukaisia liittimiä)



Brand	Car Type	Adaptor Cable
Alfa Romeo	Alfa 155	EA 6176
Audi	all models 9/87 →	EA 6179
BMW	all models 9/89 → prepared for radio	EA 6195
Citroën	all models (*except* XM, BX)	EA 6176
	XM	EA 6166
Daihatsu	Cuore, Rocky, Feroza, Applause 9/92 →	EA 6151
Ford	all models 3/89 → prepared for radio	EA 6190/00
	all models 3/89 → *not* prepared for radio	EA 6190/02
	Mondeo	EA 6244
Honda	all models (*except* Accord 3/93 →)	EA 6168
	Accord 3/93 →	EA 6176
Hyundai	all models	EA 6242
Mazda	121 2/91 →, 323 sedan 9/89 →, 626 sedan 10/87 - 1/92, 626 hatchback 10/87 - 1/92, 929 5/87 →, MX3, MX5, MX6, RX7	EA 6194
	121 4/88 - 1/91, 323 sedan 9/85 - 8/89, 323 hatchback 9/85 - 8/89	EA 6154
Mercedes	(W201) 190, 190E, 190D	EA 6115 + EA 6112
	(W124) 200 - 300 sedan	EA 6115 + EA 6112
	MB 100 D	EA 6241
Mitsubishi	all models	EA 6155/02
Nissan	all models	EA 6162
Opel	all models 1/89 →, (Corsa 1/82 →)	EA 6176
Peugeot	106, 205, 309, 405 sedan 9/88 - 8/92, 405 Break 9/88 - 8/92, 605	EA 6166
	306, 405 sedan 9/92 →, 405 Break 9/92 →	EA 6176
Renault	Twingo, R5 Campus, R5 1/85 →, Clio 6/90 - 8/92, R19 hatchback 9/88 - 3/92, R19 Chamade 6/89 - 3/92, R21 Sedan 9/89 →, R21 hatchback, R21 10/86 - 8/91, Espace, Rapid, Express	EA 6153
	Clio 9/92 →, R19 hatchback 4/92 →, R19 sedan 4/92 →, R19 Cabriolet, Safrane	EA 6176
Rover	all models (*except* 6 and 8 series)	EA 6113 + EA 6112
Seat	Ibiza 7/93 →	EA 6179
	Ibiza 1/89 → 6/93	EA 6222
	Toledo	EA 6179
Suzuki	Swift, Vitara	EA 6234
Toyota	all models 1987 →	EA 6151
Vauxhall	all models 1/89 →, (Corsa 1/82 →)	EA 6176
Volvo	240, 440, 480 → 12/90, 460 3/90 - 12/90, 740 → 12/90	EA 6158
	240 1/91→, 440, 480 1/91 →, 460 1/91 →	EA 6220
	850, 740 1/91 →, 940, 960	EA 6170
VW	all models (except Taro)	EA 6179
	Taro	EA 6151

Subject to change without notice.

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